2023-2024

QUALITY CONTROL TEST REPORTS

Client: Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Agency: Sri. G Venkate Gowda, Contractor, Bangalore.

Name of Work : Providing Additional works to Nagenahalli Govt. School in Chowdeshwari ward no-02 of Yelahanka Sub Division, BBMP, Bangalore.

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QC ABSTRACT

Nameof Work: Providing Additional works to Nagenahalli Govt. School in Chowdeshwari ward no-02 of Yelahanka Sub Division, BBMP, Bangalore.

SI. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes Results
1	1:3:6	149.11 Cum	1	1	Pass
2	M20	13.45 Cum	2	2	Pass
3	Kerb	135.00 Nos	1	1	Pass
4	CC Blocks	45.50 Sqm	1	1	Pass
5	Paver Blocks (60mm)	766.71 Sqm	1	1	Pass

Cubes	0-5 Cum	1Set
	6-15 Cum	2Set
	16-30 Cum	3Set
	31-50 Cum	4Set
	Add 1set for extra 50Cum	

A.E.E

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Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.

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Job No.: CACE/BBMP/GVG/W.No.02/2023-24 Date: 14.06.2023

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri. G Venkate Gowda,** Contractor, Bangalore.
NAME OF THE WORK	:	Providing Additional works to Nagenahalli Govt School in Chowdeshwari ward no-02 of Yelahanka Sub Division, BBMP, Bangalore.
SAMPLE ID	:	Cement (Dalmia OPC 53 Grade)
DATE OF MANUFACTURE	:	May– 2023
DATE OF TESTING	:	12.06.2023 to 14.06.2023
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	340 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

Note:

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Job No.: CACE/BBMP/GVG/W.No.02/2023-24 Date : 14.06.2023

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. G Venkate Gowda,** Contractor, Bangalore.

Name of Work : Providing Additional works to Nagenahalli Govt. School in Chowdeshwari ward no-02 of Yelahanka Sub Division, BBMP, Bangalore.

Date of Testing : 14.06.2023

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10 -	0	0	0	100	100
4.75	89	8.90	8.90	91.1	90-100
2.36	125	12.50	21.40	78.6	75-100
1.18	182	18.20	39.60	60.4	55-90
600 Micron	165	16.50	56.10	43.9	35-59
300 Micron	220	22.00	78.10	21.9	8-30
150 Micron	146	14.60	92.70	7.3	0-10

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Job No.: CACE/BBMP/GVG/W.No.02/2023-24 Date : 14.06.2023

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. G Venkate Gowda,** Contractor, Bangalore.

Name of Work : Providing Additional works to Nagenahalli Govt. School in Chowdeshwari ward no-02 of Yelahanka Sub Division, BBMP, Bangalore.

Date of Testing : 14.06.2023

Material : Sand - Masonry Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	14	1.40	1.40	98.6	90-100
1.18	39	3.90	5.30	94.7	70-100
600 Micron	86	8.60	13.90	86.1	40-100
300 Micron	245	24.50	38.40	61.6	5-70
150 Micron	482	48.20	86.60	13.4	0-15

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16-06-23

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Job No.: CACE/BBMP/GVG/W.No.02/2023-24 Date : 14.06.2023

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. G Venkate Gowda,** Contractor, Bangalore.

Name of Work : Providing Additional works to Nagenahalli Govt. School in Chowdeshwari ward no-02 of Yelahanka Sub Division, BBMP, Bangalore.

Date of Testing : 14.06.2023

Material : Sand - Plastering Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	14	1.40	1.40	98.6	95-100
2.36	25	2.50	3.90	96.1	95-100
1.18	39	3.90	7.80	92.2	90-100
600 Micron	70	7.00	14.80	85.2	80-100
300 Micron	265	26.50	41.30	58.7	20-65
150 Micron	515	51.50	92.80	7.2	0-15

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Job No.: CACE/BBMP/GVG/W.No.02/2023-24

Date : 14.06.2023

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. G Venkate Gowda,** Contractor, Bangalore.

Name of Work : Providing Additional works to Nagenahalli Govt. School in Chowdeshwari ward no-02 of Yelahanka Sub Division, BBMP, Bangalore.

Date of Testing : 14.06.2023

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	187	3.7	3.7	96.3	95-100
10	2436	48.7	52.5	47.5	25-55
4.75	1965	39.3	91.8	8.2	0-10

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16-02

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Job No.: CACE/BBMP/GVG/W.No.02/2023-24

Date : 14.06.2023

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. G Venkate Gowda,** Contractor, Bangalore.

Name of Work : Providing Additional works to Nagenahalli Govt. School in Chowdeshwari ward no-02 of Yelahanka Sub Division, BBMP, Bangalore.

Date of Testing : 14.06.2023

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	179	1.19	1.19	98.81	95-100
20	8236	54.91	56.10	43.90	30-70
10	3256	21.71	77.81	22.19	10-35
4.75	2815	18.77	96.57	3.43	0-5

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Job No.: CACE/BBMP/GVG/W.No.02/2023-24 Date : 19.06.2023

TEST REPORT ON CEMENT CONCRETE BLOCKS

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. G Venkate Gowda,** Contractor, Bangalore.

Name of the Work : Providing Additional works to Nagenahalli Govt. School in Chowdeshwari ward no-02 of Yelahanka Sub Division, BBMP, Bangalore.

Date of Testing : 19.06.2023

Size of Blocks : 400mm x 150mm x 200mm

Cross Sectional Area : 60000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (N)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	24.9	268.9	4.48	2075.00	Minimum required Compressive Strength of Individual Units 4.00N/mm^2
2	Block 2	25.6	275.6	4.59	2133.33	
3	Block 3	26.8	266.3	4.44	2233.33	
4	Block 4	24.6	279.2	4.65	2050.00	

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Job No.: CACE/BBMP/GVG/W.No.02/2023-24 Date: 28.06.2023

TEST REPORT

Client	:	**Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	**Sri. G Venkate Gowda,** Contractor, Bangalore.
Name of the work	:	Providing Additional works to Nagenahalli Govt. School in Chowdeshwari ward no-02 of Yelahanka Sub Division, BBMP, Bangalore.
Type of the test	:	Physical tests on Paver Blocks
Samples supplied by	:	AGENCY

The results of the tests conducted on the Paver Blocks sample are as follows:

1. THICKNESS:

Sl.No	Identification	Thickness, mm	Average thickness, mm
1	01	60.12	60.13
2	02	60.14	

2. COMPRESSIVE STRENGTH:

Sl. No	Identification	Load in Kilo-Newton	Cross sectional area, mm^2	Compressive strength N/mm^2	Compressive strength Kg/m^2	Requirement a Specification
1	01	698.2	24,200	28.85	288.5	Minimum require Compressive Strength of Individual Units 281 Kg/m^2
2	02	693.4	24,200	28.65	286.5	

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AE-0

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Job No.: CACE/BBMP/GVG/W.No.02/2023-24 Date: 10.07.2023

KERB STONE (CORE) TEST REPORT

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. G Venkate Gowda,** Contractor, Bangalore.

Name of Work : Providing Additional works to Nagenahalli Govt. School in Chowdeshwari ward no-02 of Yelahanka Sub Division, BBMP, Bangalore.

No.of Sample Tested : 03

Date of Testing : 10.07.2023

Techinical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalen Cube Compressi Strength (N/mm^2)
1	50.00	73.00	0.336	2344.16	1.46	0.942	32.80	16.70	18.04	16.99	21.24
2	50.00	75.00	0.349	2369.92	1.50	0.946	33.90	17.27	18.65	17.64	22.05
3	50.00	77.00	0.362	2394.35	1.54	0.950	34.20	17.42	18.81	17.88	22.35

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Job No.: CACE/BBMP/GVG/W.No.02/2023-24 Date: 24.07.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. G Venkate Gowda,** Contractor, Bangalore.

Name of the work : Providing Additional works to Nagenahalli Govt. School in Chowdeshwari ward no-02 of Yelahanka Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.07.2023	24.07.2023	8.130	336.2	14.94
2	17.07.2023	24.07.2023	8.154	348.5	15.49
3	17.07.2023	24.07.2023	8.122	352.6	15.67

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A6-02

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Job No.: CACE/BBMP/GVG/W.No.02/2023-24 Date: 14.08.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. G Venkate Gowda,** Contractor, Bangalore.

Name of the work : Providing Additional works to Nagenahalli Govt. School in Chowdeshwari ward no-02 of Yelahanka Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.07.2023	14.08.2023	8.158	500.2	22.23
2	17.07.2023	14.08.2023	8.136	512.2	22.76
3	17.07.2023	14.08.2023	8.164	489.6	21.76

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Job No.: CACE/BBMP/GVG/W.No.02/2023-24 Date: 24.07.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Banga

Agency : **Sri. G Venkate Gowda,** Contractor, Bangalore.

Name of the work : Providing Additional works to Nagenahalli Govt. School in Chowdeshwa ward no-02 of Yelahanka Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.07.2023	24.07.2023	8.174	334.2	14.85
2	17.07.2023	24.07.2023	8.136	340.5	15.13
3	17.07.2023	24.07.2023	8.168	328.9	14.62

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Job No.: CACE/BBMP/GVG/W.No.02/2023-24

Date: 14.08.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. G Venkate Gowda,** Contractor, Bangalore.

Name of the work : Providing Additional works to Nagenahalli Govt. School in Chowdeshwari ward no-02 of Yelahanka Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.07.2023	14.08.2023	8.169	489.6	21.76
2	17.07.2023	14.08.2023	8.178	500.2	22.23
3	17.07.2023	14.08.2023	8.188	516.4	22.95

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AE-02

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